

Q 1

In all plants the major sites of photosynthesis are?

A

Leaf

B

Stems

C

Roots

D

Branches

Q 2

In non-competitive inhibition, the extent of inhibition depends only on?

A

concentration of enzyme

B

concentration of substrate

C

concentration of ES complex

D

concentration of inhibitor

1

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 3

What is the function of the fluid secreted by sertoli cells?

A

provides liquid medium

B

Provides protection to sperms

C

Provides nourishment to sperms

D

All A,B and C are correct

2

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 4

Mating between relatives is called which of the following?

A

ex breeding

B

breeding

C

inbreeding

D

outbreeding

3

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 5

Centipedes belong to class _____ of arthropoda.

A

Arachnida

B

Insecta

C

Cephalopoda

D

Myriapoda

4

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 6

Resolution of human eye is:

A 2.0 μm

B 2.0 mm

C 1.0 μm

D 1.0 mm

5

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 7

Viruses that attack bacteria are called?

A

Virophage

B

Lysophage

C

Bacteriophage

D

None of the above

6

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 8

The branch of biology which deals with the study of chemical compounds and the chemical processes in the living organisms is called?

A Chemistry

B Biochemistry

C Molecular Biology

D Both a and b

7

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 9

Paramyxoviruses cause which disease?

A

influenza

B

smallpox

C

mumps and measles

D

AIDS

8

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 10

The severe reduction in population size is due to which of the following?

A

genetic drift

B

outbreeding

C

inbreeding

D

bottleneck

9

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 11 Function of Smooth Endoplasmic Reticulum (SER) is _____.

A Synthesis of intracellular proteins.

B Synthesis of extracellular proteins.

C Synthesis of extracellular enzymes.

D Synthesis of lipids.

10

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 12

Which one is not a day neutral plant?

A

cotton

B

maize

C

cucumber

D

tobacco

11

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 13

Of the following which one is not included in Protostomes?

A

arthropods

B

hemichordates

C

annelids

D

molluscs

12

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 14

A neural pathway that controls an action reflex is called:

A

Nerve cell

B

reflex arc

C

Receptor cells

D

Mixed nerve

13

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 15

The path taken by the nerve impulses in a reflex is called a

A

Nerve cell

B

reflex arc

C

Receptor cells

D

Mixed nerve

14

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 16

Proteins are the polymers of?

A

amino acids

B

fatty acids

C

nucleotides

D

none of these

15

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 17

The cell wall is not present in which of the following bacteria?

A

cocci

B

bacilli

C

Mycobacterium

D

Mycoplasma

16

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 18

The fibrous connective tissue which attaches muscle to bone is called:

A

Tendon

B

Ligament

C

reticular tissue

D

Cartilage

17

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 19

Which scientist does not match his achievements in the following options?

A

Lamarck published his theory of evolution

B

Lyell published principles of geology

C

Malthus published essay on principle of population

D

Cuvier published papers on inheritance

18

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 20

Sperms are produced in the testes and stored in?

A

testes

B

scrotal sacs

C

seminal vesicle

D

prostate gland

19

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 21

Which viruses enter the host cell as a whole?

A

plant virus

B

bacteriophages

C

animal virus

D

none

20

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 22

Maturation occurs in which stage of the bacteriophage life cycle?

A

lysogenic cycle

B

lytic cycle

C

both

D

none

21

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 23

The largest organelle in a mature living plant cell is?

A

chloroplast

B

nucleus

C

central vacuole

D

mitochondria

22

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 24

In which of the following component of the body, lactic acid fermentation takes place?

A

Heart

B

Muscles

C

Liver

D

Brain

23

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 25

Purple non-sulphur bacteria is an example of which of the following?

A

Heterotrophic bacteria

B

Saprotrophic bacteria

C

Chemosynthetic bacteria

D

Photosynthetic bacteria

24

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 26

What was the unit membrane model?

A

Plasma membrane has lipid bilayer.

B

Proteins are embedded in the lipid bilayer.

C

Plasma membrane has charged pores for transport of materials which cannot penetrate through the lipid bilayer.

D

All of the above.

25

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 27

Which of the following organelles are found in both plant and animal cells?

A

central vacuole

B

tonoplast

C

cell wall

D

peroxisomes

26

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 28

Feedback inhibition in most metabolic pathways involves which type of enzymes?

A

Holoenzymes

B

Coenzymes

C

Apoenzymes

D

Allosteric enzymes

27

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 29

Maximum capacity of hemoglobin to absorb oxygen is:

A

19.6ml/100 ml blood

B

20 ml/100 ml blood

C

25 ml/100 ml blood

D

30 ml/100 ml blood

28

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 30

A group of interbreeding individuals belonging to a particular species and sharing a common geographic area is called?

A community

B family

C race

D population

29

SKIPPED QUESTIONS [← Previous Question](#)[Next Question →](#)

Q 31

Hemophilia is a sex-linked recessive disease. A mother that is a carrier for the disease mates with a healthy male. Which of the following statements is true?

- A The daughters are just as likely to be hemophilic as the sons
- B 50% of the daughters will have hemophilia
- C None of the children will have hemophilia, because the mother is only a carrier
- D 50% of the sons will have hemophilia

30

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 32

Which type of cartilage is the most abundant in human body?

A

Hyaline cartilage

B

elastic cartilage

C

fibrocartilage

D

None of these

31

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 33

A trait determined by a gene on the X chromosome is said to be:

A

Pseudoautosomal

B

Sex linked

C

Both a & b

D

None of the above

32

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 34

Protein constitutes of what percentage of the total dry weight found in cells?

A

50

B

55

C

40

D

65

33

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 35

The difference in photosynthesis spectrum and actin spectrum occurs due to?

A

Carbon dioxide

B

oxygen

C

carotenoids

D

wavelength

34

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 36

The binding sites for the cross bridges are found on:

A

actin

B

myosin

C

troponin

D

sarcomere

35

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 37

Inhibitors which block the enzyme by forming weak bond are called?

A

Competitive inhibitors

B

Non-competitive inhibitors

C

Irreversible inhibitors

D

both a and b

36

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 38

The larvae of which of these animals resemble those of chordates?

A

Starfish

B

Cuttlefish

C

Catfish

D

Butterfly

37

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 39

A monohybrid cross yielded 3:1 in F₂. What could be mode of inheritance?

A

segregation

B

independent assortment

C

both a and b

D

none of these

38

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 40

Which of the following is involved in sleeping and waking?

A

thalamus

B

brain stem

C

hypothalamus

D

cerebellum

39

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 41

The total aggregate of genes in a population at any one time is called population's?

A

genome

B

gene pool

C

genetic group

D

genomic library

40

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 42

Out of 31 pairs of spinal nerves, how many pairs of coccygeal nerves are there?

A

1

B

5

C

10

D

12

41

SKIPPED QUESTIONS [← Previous Question](#)[Next Question →](#)

Q 43

Which disease is represented by excess MSH secretion?

A

Addison's

B

Alzheimer's

C

Parkinson's

D

Crohn's

42

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 44

Enzyme that are integral part of ribosomes are involved in the synthesis of which of the following molecules?

A

lipids

B

proteins

C

carbohydrates

D

all of these

43

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 45

Which one of these occur in dark reactions of photosynthesis

A

formation of ATP

B

release of oxygen

C

release of hydrogen

D

synthesis of PGAL

44

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 46

Movement of the material across the cell membrane which does not requiring expenditure of metabolic energy is called?

A active transport

B passive transport

C diffusion

D both b and c

45

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 47

What type of virus is the herpes simplex virus?

A

DNA enveloped virus

B

RNA enveloped virus

C

dna virus

D

rna naked virus

46

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 48

The amount of oxygen in exhaled air is:

A

21%

B

16%

C

79%

D

4%

47

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 49

Rarely occurring monosaccharides observed in some bacteria is?

A

Tetroses

B

hexoses

C

pentoses

D

trioses

48

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 50

Where does the molecular mechanism of oxidative phosphorylation take place?

A

cytosol

B

mitochondria

C

nucleus

D

all of these

49

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 51

Circulatory system is open type in all of the following except?

A

Arthropoda

B

Gastropoda

C

Pelecypoda

D

Cephalopoda

50

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 52

In a certain species of feline, all males are much larger than females. Members of either sex that are of intermediate size struggle to find mates. What principle best describes this phenomenon?

A Bottleneck affect

B Directional selection

C Genetic drift

D Disruptive selection

51

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 53

Assume that blood type is not a sex-linked trait. A mother with genotype "A/O" and a father with genotype "A/B" could NOT have a child with which blood type?

A

A

B

B

C

AB

D

O

52

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 54

Where does germ cells are produced?

A

uterus

B

ovaries

C

eggs

D

fallopian tube

53

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 55

Cytoplasmic streaming movement causes flow of all of the following except?

A

Glucose and salts

B

mitochondria

C

Golgi

D

RER

54

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 56

Knee , elbow , ankle and interphalangeal joints are examples of:

A

Saddle joint

B

Condylloid joint

C

Ball and socket joint

D

Hinge joint

55

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 57

Example of a homologous organ is represented best by which of the following?

A Wing of an insect, wing of a bird

B Leg of a dog, leg of a spider

C The arm of a human, wing of a bird

D all of these

56

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 58

What types of viruses contain the enzyme lysozyme to aid in their infection?

A bacteriophage

B animal viruses

C plant viruses

D fungal viruses

57

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 59

Phosphofructokinases enzyme converts fructose-6-phosphate into ____

A

fructose-1,4-phosphate

B

fructose-1,6-bisphosphate

C

bisphosphate

D

fructose

58

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 60

Which of the following is not an example of positive feedback?

- A A forest fire slowly expands outward, which provides it with even more fuel to burn.
- B During childbirth, oxytocin creates a stimulus which causes the hypothalamus to release more oxytocin
- C As more buffalo begin to run in a herd, the overall level of panic increases. This results in even more buffalo running.
- D As blood calcium levels increase, parathyroid hormone (PTH) is reduced.

59

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 61

Methanopyrus kandleri is an organism which lives in a hydrogen-carbon dioxide environment, and was first discovered in a hydrothermal vent where temperatures reached 230°F. What sort of organism is this?

A protist

B Cyanobacteria

C archaea

D bacteria

60

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 62

Chlorosis, which is represented by yellowish hue on the leaves results from which of the following?

A

Accumulation of toxic waste products in leaves.

B

Deficiency of chlorophyll.

C

Short supplies of mineral nutrients in the soil.

D

all of these

61

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 63

Carbonic anhydrase is found in:

A

RBC

B

Parabronchi

C

Pleura

D

none of these

62

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 64

A key property of a living being is that it contains _____ for making its protein

A

amino acids

B

mitochondria

C

mRNA

D

ribosomes

63

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 65

Which of the following elements are not found in carbohydrates?

A

C

B

H

C

N

D

O

64

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 66

The process that does not occur during expiration is:

- A intercostal muscles are relaxed
- B ribs are relaxed
- C muscles of diaphragm are relaxed
- D Lungs are relaxed

65

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 67

The composition of the white matter of spinal cord is:

A

myelinated dendrite

B

non-myelinated dendrite

C

non-myelinated axon

D

myelinated axon

66

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 68

Which of the following statement about the head of a chlorophyll molecule is incorrect?

- A It is a porphyrin ring or tetrapyrrole ring structure
- B It is flat, square and light absorbing
- C Composed of carbon and nitrogen atoms with Magnesium as central metal ion, which is coordinated with nitrogen.
- D It is hydrophobic

67

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 69

The efficiency of the heat engine can be defined as:...

A

$$Q_2 / 1 - \text{-----} Q_1$$

B

$$Q_2 / 1 + \text{-----} Q_1$$

C

$$Q_1 / 1 - \text{-----} Q_2$$

D

$$Q_1 / 1 + \text{-----} Q_2$$

68

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 70

Rate of change of displacement with respect to time is

A

acceleration

B

velocity

C

speed

D

power

69

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 71

Full wave rectifier uses

A

one diode

B

two diode

C

three diodes

D

Four diodes

70

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 72

For ideal step up transformer P_s ___ P_p .

A

equal to

B

greater than

C

less than

D

none of these

71

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 73

Oscillatory or vibratory motion can be defined as:

- A upward motion from mean position
- B right hand motion of the pendulum
- C to and fro motion about the mean position
- D random movement of gas particles

72

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 74

_____ relationship exists between current and voltage in terms of Ohm's law

A

Non linear

B

Varying

C

Linear

D

None of them

73

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 75

Which is not radioactive?

A

ozone

B

hydrogen

C

sodium

D

all of these

74

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 76

The capacitance of a capacitor is a measure of its ability to:...

A

store charge

B

store electric field

C

gain potential difference

D

store magnetic field

75

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 77

A man pushes a wall and failed to displace it ,he does

A

Negative work

B

positive work but not maximum

C

No work at all

D

maximum work

76

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 78

During the circular path in magnetic field, what is the magnetic force

A

$$F = qB$$

B

$$F = qB^2$$

C

$$F = qB/v$$

D

$$F = qvB$$

77

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 79

Radioactive radiations are used to destroy

A

healthy cells

B

cancerous cells

C

bacteria

D

damaged organs

78

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 80

The angular velocity at a particular instant is called:

A instantaneous angular speed

B instantaneous angular velocity

C angular speed

D none of these

79

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 81

The value of Rydberg constant varies with atomic number as

A

Z^3

B

$1/Z^2$

C

Z^2

D

Z

80

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 82

In stretched string the frequency of vibration is given by $f = \frac{1}{2L} \sqrt{F/m}$. In this equation m has dimension

A

ML⁻²

B

ML⁻¹

C

M

D

ML

81

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 83

20 waves pass through a point in a medium, in 5 seconds. What is the time required to pass one wave?

A

 $\frac{1}{4}$ sec

B

4 sec

C

 $\frac{1}{2}$ sec

D

2 sec

82

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 84

International ohm is defined in terms of the resistance of

A

A column of mercury

B

A cube of carbon

C

A cube of copper

D

The unit length of wire

83

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 85

What is the acceleration of an object having charge $2\mu\text{C}$ and mass 2 g moving through electric field strength 20 N/C ?

A 4 cm/s^2

B 2 cm/s^2

C 40 cm/s^2

D 20 cm/s^2

84

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 86

A set of Atoms in an excited state decays

A

in any general state with lower energy

B

In any state when excited by electric field

C

In any state when excited by magnetic field

D

None of these

85

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 87

Energy of photon is directly proportional to its :

A

Temperature

B

Frequency

C

Wave length

D

None of the above

86

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 88

Cyclic path is one in which initial state is equal to

A

2 (final state)

B

final state

C

3 (final state)

D

Not enough information

87

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 89

Which of the following rectifier uses wheatstone bridge to rectify signal

A

half wave

B

full wave

C

bridge

D

All of the above

88

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 90

What is the de Broglie wavelength of a ball of mass 150g moving at a speed of 50 m/s?

A

 $8.8 \times 10^{-34} \text{m}$

B

 $8.8 \times 10^{-35} \text{m}$

C

 $8.8 \times 10^{-20} \text{m}$

D

 $8.8 \times 10^{-25} \text{m}$

89

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 91

Angle between radius vector and centripetal acceleration is

A

 0°

B

 π

C

 2π

D

none of these

90

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 93

In an A.C. coordinate potentiometer, the currents in the phase and quadrature potentiometer are adjusted to be

A Out of phase by 90°

B Out of phase by 60°

C Out of phase by 30°

D Out of phase by 0°

92

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 94

Angular displacement is zero when

A

angle =0

B

 $v=0$

C

 $r=0$

D

both b and c

93

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 95

If a proton, alpha particle and photon moving with same velocity enter in uniform magnetic field then which particle will deflect more

A

proton

B

alpha particle

C

photon

D

all of these

94

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 96

If the velocity of an object is increasing with time then acceleration is

A

negative

B

positive

C

zero

D

none of the above

95

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 97

If two photons interact in same direction what will change

A

mass

B

energy

C

intensity

D

none of these

96

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 98

Electric intensity at the centre of uniformly distributed charge is

A

Zero

B

 Kq/r^2

C

 q/r^2

D

 q/ϵ_0

97

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 99

Crop mutation is performed by

A

high intense radiation

B

low intense radiation

C

mutation is done without radiation

D

none of these

98

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 100

Coulomb per volt is called:...

A

Ampere

B

electron volt

C

Joule

D

Farad

99

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 101

A nucleus with $A=235$ splits into two nuclei of mass numbers in the ratio 1:2. The ratio of the radii of the new nuclei are :

A

1:02

B

01:01.3

C

8:01

D

none of these

100

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 102

All electrical appliances are connected in parallel to each other between the main line and neutral wire to get

A

Same current

B

Same current and a potential difference

C

Different current but the same potential difference

D

Different current and potential differences

101

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 103

A straight moving bus takes a sharp right turn. What will happen to the passengers sitting inside the bus?

A

They will tilt rightwards

B

They will tilt leftwards

C

They will stay the way they were

D

They will start jumping

102

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 104

1 Curie is equal to

A

1 MBq

B

37 MBq

C

37 GBq

D

3.7 GBq

103

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 105 Ripple factor of half wave rectifier is

A 1.21

B 0.8

C 0.6

D 0.4

104

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 106

Work done by the magnetic force on charged particle in presence of perpendicular magnetic field is

A

positive

B

zero

C

negative

D

none of these

105

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 107

According to Faraday's Law, emf induced in circuit depends on

A

max. magnetic flux

B

rate of change of magnetic flux

C

change in magnetic flux

D

initial flux

106

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 108

The core of transformer is made up of

A hard iron

B Soft iron

C Aluminium

D Copper

107

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 109

A block of mass 60 kg just slides over a horizontal distance of 0.9 m. if the coefficient of friction between their surfaces is 0.15 then work done against friction will be:

A 79.4J

B 97.54J

C 105.25J

D 81J

108

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 110

Magnetic force between two wires is proportional to

A

distance

B

current on them

C

Charge on them

D

none of these

109

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 111 A full wave rectifier passes _____ into positive cycles

A lower half cycle

B upper half cycle

C both cycles

D none of them

110

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 112

What is true about acceleration of an object undergoing simple harmonic motion?

A

acceleration is minimum when velocity is maximum

B

acceleration is proportional to the frequency of oscillation

C

acceleration is in opposite direction to its velocity

D

acceleration is minimum when potential energy is maximum

111

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 113

Internal resistance is the resistance offered by

A

Source of emf

B

Conductor

C

Resistor

D

Capacitor

112

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 114 Step down transformer has _____ turns in secondary coil

A more

B less

C equal

D zero

113

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 115

The x-ray photon is uncertain when it is

A

emitted

B

absorbed

C

traveling

D

all of these

114

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 116

The unstable atom means

A

electrons are increasing

B

protons are increasing

C

neutrons are increasing

D

any of these

115

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 117

An object is displaced from point A (2,3,4) m to point B (1,2,3) m under a constant force $F = (2i + 3j + 4k)$. find the work done by this force in this process

A 9 J

B 0

C -9 J

D 20 J

116

SKIPPED QUESTIONS [← Previous Question](#)[Next Question →](#)

Q 118

100 W heater is used for 5 minutes to heat 500 g of water. What is the change in temperature of water? Specific heat capacity of water is 4.2 J/gC .

A 140C

B 40C

C 0.2 C

D 14C

117

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 119

A half wave rectifier is operating from 50 Hz mains. Fundamental frequency of ripple will be

A 100 Hz

B 25 Hz

C 200Hz

D 50Hz

118

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 120

If magnetic field is given by $B = (2\mathbf{i} + 3\mathbf{j} - 8\mathbf{k})$ and a loop of area 10 sq.m is placed in field in y-z plane, max flux will be

A

-20 wb

B

30 wb

C

20 wb

D

80 wb

119

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 121

In which situation, distance is three times than its displacement?

A

object moves and come back to its initial position

B

object moves 20 m towards east and 10 m towards west

C

object moves 20 m towards east and 10 m towards south

D

object moves 20 m towards north and 10 m towards west

120

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 122

Power transfer from primary to secondary is through flux linkage, so the primary and secondary coils should be wound in such a way that flux coupling between them is

A min

B constant

C zero

D max

121

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 123

Internal energy remains same throughout the process in

A

adiabatic process

B

isothermal process

C

cyclic process

D

both (i) and (ii)

122

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 124

When white light is passed through cool gases the spectra we observed is called

A

Line spectra

B

continuous spectra

C

absorption line spectra

D

emission line spectra

123

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 125

What is the hybridization of carbon in -COOH group?

A

 sp^2

B

 Sp^s

C

 Sp

D

None of these

124

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 126

In Haber's process the final product ammonia is converted into

A

solid state

B

Liquid state

C

gaseous state

D

None of these

125

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 127

Joule is the unit of ?

A

Heat

B

Energy

C

Work

D

All of these

126

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 128

The region where probability of finding the electron is maximum is called as

A

Nucleus

B

Atom

C

Orbital

D

Nodal plane

127

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 129

Geometrical isomerism arises due to ____?

A

Rotation around a double bond

B

Restriction of rotation around a single bond

C

Restriction of rotation around a double bond

D

Due to double bond

128

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 130

Molecules of ____ can collide among themselves and exchange energy

A

solids

B

liquids

C

gases

D

both B & C

129

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 131

During catalytic reduction of carbonyl compounds, hydrogen adds across?

A

 $C=C$

B

 $C-H$

C

 $C=O$

D

All of these

130

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 132

Molten sodium burns with brilliant yellow flame in a chlorine atmosphere to form ____?

A

NaCl

B

NaOH

C

NaBr

D

ClO

131

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 133 The shielding effect _____ from left to right in a period

A decreases

B increases

C remains same

D no change

132

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 134

The break down of molecular ions from natural products give important information about

A

size

B

position

C

shape

D

structure

133

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 135

Transition elements form complexes because_____?

A

They have empty d orbitals

B

They show variable oxidation states

C

Both a and b

D

They have strong bonding

134

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 136

Crystallites are a part of

A

Ores

B

Crystalline Solids

C

Amorphous Solids

D

None of these.

135

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 137

Strong acid can be involved in a spontaneous reaction which is termed as

A

Addition Reaction

B

Substitution Reaction

C

Neutralization Reaction

D

Reversible Reaction

136

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 138 Acetaldehyde in the presence of $\text{Con.H}_2\text{SO}_4$ undergoes _____?

- A Dehydration
- B Polymerization
- C Condensation
- D Oxidation reaction

137

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 139

Hydrolysis means reaction with

A

Oxygen

B

Hydrogen

C

Water

D

Air

138

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 140

On which factor boiling point of a liquid does not depends?

A

External pressure

B

Vapour pressure

C

Amount of liquid

D

Intermolecular forces

139

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 141

Falling water of a waterfall is an example of

A

Reversible Reaction

B

Spontaneous Reactions

C

Endothermic Reactions

D

All of these

140

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 142

Protein component of enzyme is called_____.

A

Coenzyme

B

Cofactor

C

Apo-enzyme

D

Prosthetic group

141

SKIPPED QUESTIONS [◀ Previous Question](#)[Next Question ▶](#)

Q 143 Wholar prepare urea from_____?

A Ammonium cyanate

B Ammonium acetate

C Ammonium urease

D Ammonium Carbonate

142

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 144

Which of the following alcohol is most reactive in the reaction where O-H bond breaks?

A

Primary alcohol

B

Tertiary alcohol

C

Methyl alcohol

D

Secondary alcohol

143

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 145

Water is considered as a Universal solvent because of which properties?

A

Polar nature of water

B

H-bonding

C

Electronegativity difference

D

All are correct

144

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 146

An electron in an atom is completely described by its

A

2 quantum numbers

B

only one quantum number

C

four quantum numbers

D

3 quantum numbers

145

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 147

The half-life of Uranium is

A

700 Million years

B

706 Million years

C

89 days

D

710 million year

146

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 148

In the addition of sodium bisulfite to carbonyl system, which of the following is nucleophile?

A Sulphide ion

B Sulfite ion

C Hydride ion

D Sodium ion

147

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 149 Ketones can be oxidized by _____?

- A Dil.HNO₃
- B Tollen's reagent
- C Benedict reagent
- D Fehling's reagent

148

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 150

The shielding effect is also called

A

Zee effect

B

screening effect

C

negative effect

D

reducing effect

149

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 151

Production of Ammonia by Haber process is a

A

Endothermic Reaction

B

Exothermic Reaction

C

Irreversible Reaction

D

Redox Reaction

150

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 152

Reaction of Sodium with water is an example of

A

Reversible reaction

B

Endothermic

C

Irreversible

D

Slow

151

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 153

In Electrochemical Cells Reduction takes place at

A

Anode

B

Cathode

C

At the surface of electrolyte

D

None of these

152

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 154

1 amu is equal to

A

 $1.666 \times 10^{-27} \text{ kg}$

B

 $1.661 \times 10^{-28} \text{ kg}$

C

 $1.661 \times 10^{-27} \text{ kg}$

D

 $1.661 \times 10^{-27} \text{ kg}$

153

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 155

Alkyl halide react with Sodium lead alloy, which of the following is correct formula of tetramethyl lead?

A $(C_2H_5)_4Pb$

B $(CH_3)_4Pb$

C $(CH_3)_4Pb$

D $(CH_3)_4Pd$

154

SKIPPED QUESTIONS [← Previous Question](#)[Next Question →](#)

Q 156

On which factors the vapour pressure of a substance does not depend?

A

Physical state of matter

B

Intermolecular forces

C

Surface area

D

Temperature

155

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 157

1 Pascal is equal to

A

1 Nm⁻²

B

76 t rr

C

1 1325 pa

D

all of these

156

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 158

Heavy water contain isotope of Hydrogen

A

protium

B

deuterium

C

tritium

D

both A & C

157

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 159

Number of Valence Electrons in Cl^- Ion are

A

18

B

10

C

17

D

8

158

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 160

Nitrates of which pair of elements gives different products on thermal decomposition?

A

Na, K

B

Mg, Ca

C

Li, Na

D

Li, Ca

159

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 161

Any process of chemical decay of metals due to the action of the surrounding medium is called

A

Activation

B

Enamelling

C

Corrosion

D

Coating

160

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 162

Which pair shows hydrogen bonding among them

A

ammonia & carbon

B

acetone and Ker

C

acetone and chloroform

D

water & Neon

161

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 163 Ethene react with Oxygen in the presence of Silver oxide to produce_____?

A Ethylene oxide

B Ethylene epoxide

C Methylene oxide

D Both a and b

162

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 164 Fruity smell of organic compounds is because of _____?

A Alcohols

B Carboxylic acid

C Ester

D Acidhalids

163

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 165

OH⁻ is added when reaction is in

A

Acidic Medium

B

Basic Medium

C

Neutral solution

D

All of these

164

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 166

If temperature of reaction medium increases above optimum temperature then_____?

A It increases the enzyme activity

B Stops the reaction

C Decreases the enzyme activity

D Both b and c

165

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 167 Which of the following is most reactive of all?

A Alkanes

B Alkenes

C Alkynes

D Benzene

166

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 168

Coordination number of Na in NaCl is

A

4

B

6

C

8

D

3

167

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 169

Electrons can revolve only in those orbits having _____-angular momentum which depends on its _____ number.

A

variable, quantum

B

fixed, principal

C

fixed, quantum

D

variable, principal

168

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 170

If anyone of the products concentration is plotted against time instead of reactants the curve obtained will be

A Parabolic

B Rising

C Falling

D Elliptical

169

SKIPPED QUESTIONS [← Previous Question](#)[Next Question →](#)

Q 171

At which temperature water boils at Murree Hills?

A

50°C

B

100°C

C

98°C

D

67°C

170

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 172

The total number of transition elements are?

A

48

B

32

C

58

D

28

171

SKIPPED QUESTIONS [← Previous Question](#)[Next Question →](#)

Q 173

Electrolysis is a

A

Spontaneous Reactions

B

Oxidation-reduction reaction

C

Reduction Reaction

D

Oxidation Reaction

172

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 174

Ammonia may be prepared by heating ammonium chloride with

A

Water

B

NaCl

C

Aqueous sodium hydroxide

D

 H_2SO_4

173

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 175

Which gases are used as mixture for breathing in sea?

A

Oxygen and nitrogen

B

Carbon dioxide and oxygen

C

Helium and oxygen

D

Helium and hydrogen

174

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 176

Which of the following reactions have first step similar with each other?

A

 E_1, S_2

B

 E_2, S_1

C

 E_2, S_2

D

 E_1, S_1

175

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 177

When are the prefixes ortho, para, and meta used?

A

In alkynes to identify the position of triple bond

B

In arenes to identify the position first substitution

C

In arenes to identify the position second substitution

D

In all hydrocarbons to identify the position functional group

176

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 178

The value of heat of neutralization of strong acid with a strong base is always_____?

A

Constant

B

Variable

C

Depends on the strength of acid

D

Depends on the strength of base

177

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 179

Different type of hybridization takes place depending upon ____ of orbital's participating in hybridization

A

number

B

nature

C

structure

D

both A & B

178

SKIPPED QUESTIONS [← Previous Question](#)[Next Question →](#)

Q 180

Decomposition of Ozone has a very low value of equilibrium constant because of its

A

stability

B

reactivity

C

compressibility

D

Instability

179

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Demonstrate control of tenses and sentence structure

Q 181

We all _____ (have) fun.

A

have

B

had

C

will have

D

have had

180

SKIPPED QUESTIONS  Previous QuestionNext Question 

Demonstrate correct use of subject-verb agreement

Q 182

Tweezers ____ always useful to handle small objects.

A

is

B

are

C

will

D

may

181

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 183

Choose the correct sentence.

A

Dr Hussain works at city hospital in gulberg.

B

Dr Hussain works at City Hospital in Gulberg?

C

Dr Hussain works at City Hospital in Gulberg.

D

Dr Hussain works at city hospital in Gulberg.

182

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 183

Choose the correct sentence.

A

Dr Hussain works at city hospital in gulberg.

B

Dr Hussain works at City Hospital in Gulberg?

C

Dr Hussain works at City Hospital in Gulberg.

D

Dr Hussain works at city hospital in Gulberg.

182

SKIPPED QUESTIONS



Download with IDM



< Previous Question

Next Question >

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 184

I found this bangle (A) while digging (B) in the backyard.(C) I don't know who it belonged to. (D)

A

I found this bangle

B

while digging

C

in the back yard.

D

I don't know who it belonged to.

183

SKIPPED QUESTIONS

< Previous Question

Next Question >

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 185

Choose the correct spelling of the word

A except

B excapt

C excipt

D ecsept

184

SKIPPED QUESTIONS

< Previous Question

Next Question >

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 186

we had

A

wed

B

we'ed

C

we'd

D

wee'd

185

SKIPPED QUESTIONS

< Previous Question

Next Question >

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 187

We have (A) /been knowing (B)/ each other (C)/ since we were children. (D)

A

We have

B

been knowing

C

each other

D

since we were children

186

SKIPPED QUESTIONS

< Previous Question

Next Question >

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 188

You must boil those vegetables before _____ in the stew.

A

using

B

use

C

their used

D

the use

187

SKIPPED QUESTIONS

< Previous Question

Next Question >

Demonstrate correct use of subject-verb agreement

Q 189 A large number of soldiers _____ died for the country.

A has

B is

C are

D have

188

SKIPPED QUESTIONS

< Previous Question

Next Question >

Demonstrate control of tenses and sentence structure

Q 190

What is the tense of this question? Will Tom be able to mend that broken window?

A Present

B past

C future

D none of these

189

SKIPPED QUESTIONS

< Previous Question

Next Question >

Demonstrate correct use of articles and prepositions

Q 191 Karim is _____ best student in the class.

A a

B an

C the

D no article

190

SKIPPED QUESTIONS

< Previous Question

Next Question >

Demonstrate control of tenses and sentence structure

Q 192

What tense is the verb in this sentence? 'I'll take you in my car.'

A

Present

B

past

C

future

D

none of these

191

SKIPPED QUESTIONS

< Previous Question

Next Question >

Comprehend key vocabulary

Q 193

hunch

A

hump

B

stretch

C

straighten

D

curiosity

192

SKIPPED QUESTIONS

< Previous Question

Next Question >

Demonstrate control of tenses and sentence structure

Q 194

Choose the correct sentence.

A

I did not accompanied them.

B

I do not accompanied them.

C

I do not accompany them

D

I does not accompany them.

193

SKIPPED QUESTIONS

< Previous Question

Next Question >

Comprehend key vocabulary

Q 195

The mechanic is working hard to _____ our car by this evening.

A make

B repair

C renew

D wander

194

SKIPPED QUESTIONS

[< Previous Question](#)[Next Question >](#)

Demonstrate control of tenses and sentence structure

Q 196

Find the error?

A

The staff at the university

B

library deserve recognition

C

for helping to locate

D

the many sources needed for the successful completion of my doctoral dissertation.

195

SKIPPED QUESTIONS

< Previous Question

Next Question >

Demonstrate control of tenses and sentence structure

Q 197 I _____ a letter now.

A write

B writing

C am writing

D am writting

196

SKIPPED QUESTIONS

< Previous Question

Next Question >

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 198

Choose the correct spelling of the word

A

comitte

B

commite

C

committee

D

comittee

197

SKIPPED QUESTIONS

< Previous Question

Next Question >

Comprehend key vocabulary

Q 199

luminary

A

bright

B

lightening

C

famous

D

dashing

198

SKIPPED QUESTIONS

< Previous Question

Next Question >

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 200

Choose the correct sentence.

A

I don't like this one bit said Jamil.

B

"I don't like this one bit," said Jamil.

C

"I don't like this one bit?" said jamil.

D

I don't like this one bit ,said Jamil.

199

SKIPPED QUESTIONS

< Previous Question

Next Question >

Statements and Conclusions

Q 201

Statement. All clocks are watches. Some clocks are alarms. Conclusion I Some alarm watches. II All watches are alarm.

A Only conclusion (I) follows

B Only conclusion (II) follows

C Both conclusions follow

D Both of them do not follow

200

SKIPPED QUESTIONS

[< Previous Question](#)[Next Question >](#)

Statements and Actions

Q 202

Statement A smoker has left smoking suddenly a. He will feel restlessness and anxiety. b. He will start gaining weight

A Both of them follows

B None of them follows

C Only b follows

D Only a follows

201

SKIPPED QUESTIONS

[← Previous Question](#)[Next Question →](#)

Complete the series

Q 203

Which letter lies in the middle of word Quality?

A

L

B

A

C

U

D

Y

202

SKIPPED QUESTIONS

< Previous Question

Next Question >

Statements and Actions

Q 204

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A both of them follows

B None of them follows

C Only I follows

D Only II follows

203

SKIPPED QUESTIONS

< Previous Question

Next Question >

Statement and Argument

Q 205

Statement Should admission to the professional degrees in Pakistan be given only on merit without any concession to any particular group of students? Arguments (I) Yes. This will improve the quality of the professional institutes and degrees as they will be able to complete the degree successfully. (II) No. This will keep a large number of socially and economically backward students out of the reach of professional institutes and degrees.

- A If argument I is strong
- B If only argument II is strong
- C If both I and II are strong.
- D If neither I nor II is strong

204

SKIPPED QUESTIONS

Statement and Argument

Q 205

Statement Should admission to the professional degrees in Pakistan be given only on merit without any concession to any particular group of students? Arguments (I) Yes. This will improve the quality of the professional institutes and degrees as they will be able to complete the degree successfully. (II) No. This will keep a large number of socially and economically backward students out of the reach of professional institutes and degrees.

- A If argument I is strong
- B If only argument II is strong
- C If both I and II are strong.
- D If neither I nor II is strong

204

SKIPPED QUESTIONS

Verbal Classification

Q 206

Who is the father of Computer?

A

Alan Turing

B

Charles Babbage

C

Simur Cray

D

Both A and B

205

SKIPPED QUESTIONS

< Previous Question

Next Question >

Answer on Passage

Q 207

Children are in pursuit of a dog whose leash has broken. James is directly behind the dog. Ruby is behind James. Rachel is behind Ruby. Max is ahead of the dog walking down the street in the opposite direction. As the children and dog pass, Max turns around and joins the pursuit. He runs in behind Ruby. James runs faster and is alongside the dog on the left. Ruby runs faster and is alongside the dog on the right. Which child is directly behind the dog?

A

James

B

Ruby

C

Rachel

D

Max

206

SKIPPED QUESTIONS

Directions to solve

Q 209

Directions : In each of the following questions a statement is given, followed by two conclusions. Give answer : Statement : "Please do not wait for me, I may be late, start taking lunch as soon as the guests arrive." - A message from a Director of a Company to his office managers. Assumptions : I. Keeping guests waiting is not desirable. II. Lunch may not be ready in time.

A Only assumption I is implicit

B Only assumption II is implicit

C Either I or II is implicit

D Both A and B

208

SKIPPED QUESTIONS

[< Previous Question](#)[Next Question >](#)

Complete the series

Q 210

Complete the series A2.5, B5, C7.5, _____?

A

D9

B

D10

C

D9.5

D

D45

209

SKIPPED QUESTIONS

< Previous Question

Submit

Complete the series

Q 210 Complete the series A2.5, B5, C7.5, _____?

A D9

B D10

C D9.5

D D45

209

SKIPPED QUESTIONS

< Previous Question

Submit

Q1 In all plants the major sites of photosynthesis are?

A Leaf

B Stems

C Roots

D Branches

< Previous Question

Next Question >

Q2

In non-competitive inhibition, the extent of inhibition depends only on?

A

concentration of enzyme

B

concentration of substrate

C

concentration of ES complex

D

concentration of inhibitor

[< Previous Question](#)[Next Question >](#)

Q3

What is the function of the fluid secreted by sertoli cells?

A

provides liquid medium

B

Provides protection to sperms

C

Provides nourishment to sperms

D

All A,B and C are correct

[< Previous Question](#)[Next Question >](#)

Q4

Mating between relatives is called which of the following?

A

ex breeding

B

breeding

C

inbreeding

D

outbreeding

[< Previous Question](#)[Next Question >](#)

Q5

Centipedes belong to class _____ of arthropoda.

A

Arachnida

B

Insecta

C

Cephalopoda

D

Myriapoda

[< Previous Question](#)[Next Question >](#)

Q6

Resolution of human eye is:

A

2.0 μm

B

2.0 mm

C

1.0 μm

D

1.0 mm

< Previous Question

Next Question >

Q7

Viruses that attack bacteria are called?

A

Virophage

B

Lysophage

C

Bacteriophage

D

None of the above

[< Previous Question](#)[Next Question >](#)

Q8

Paramyxoviruses cause which disease?

A

influenza

B

smallpox

C

mumps and measles

D

AIDS

< Previous Question

Next Question >

Q9

The severe reduction in population size is due to which of the following?

A

genetic drift

B

outbreeding

C

inbreeding

D

bottleneck

[< Previous Question](#)[Next Question >](#)

Q10 Function of Smooth Endoplasmic Reticulum (SER) is _____.

A Synthesis of intracellular proteins.

B Synthesis of extracellular proteins.

C Synthesis of extracellular enzymes.

D Synthesis of lipids.

◀ Previous Question

Next Question ▶

Q11

Which one is not a day neutral plant?

A

cotton

B

maize

C

cucumber

D

tobacco

< Previous Question

Next Question >

Q12

Of the following which one is not included in Protostomes?

A

arthropods

B

hemichordates

C

annelids

D

molluscs

[< Previous Question](#)[Next Question >](#)

Q13

A neural pathway that controls an action reflex is called:

A

Nerve cell

B

reflex arc

C

Receptor cells

D

Mixed nerve

[< Previous Question](#)[Next Question >](#)

Q14

The path taken by the nerve impulses in a reflex is called a

A

Nerve cell

B

reflex arc

C

Receptor cells

D

Mixed nerve

[< Previous Question](#)[Next Question >](#)

Q15

The cell wall is not present in which of the following bacteria?

A

cocci

B

bacilli

C

Mycobacterium

D

Mycoplasma

[< Previous Question](#)[Next Question >](#)

Q16

The fibrous connective tissue which attaches muscle to bone is called:

A

Tendon

B

Ligament

C

reticular tissue

D

Cartilage

[< Previous Question](#)[Next Question >](#)

Q17

Which scientist does not match his achievements in the following options?

A

Lamarck published his theory of evolution

B

Lyell published principles of geology

C

Malthus published essay on principle of population

D

Cuvier published papers on inheritance

[< Previous Question](#)[Next Question >](#)

Q18

Sperms are produced in the testes and stored in?

A

testes

B

scrotal sacs

C

seminal vesicle

D

prostate gland

< Previous Question

Next Question >

Q19

Which viruses enter the host cell as a whole?

A

plant virus

B

bacteriophages

C

animal virus

D

none

[< Previous Question](#)[Next Question >](#)

Q20

Maturation occurs in which stage of the bacteriophage life cycle?

A

lysogenic cycle

B

lytic cycle

C

both

D

none

[< Previous Question](#)[Next Question >](#)

Q21

The largest organelle in a mature living plant cell is?

A

chloroplast

B

nucleus

C

central vacuole

D

mitochondria

[< Previous Question](#)[Next Question >](#)

Q22

Purple non-sulphur bacteria is an example of which of the following?

A

Heterotrophic bacteria

B

Saprotrophic bacteria

C

Chemosynthetic bacteria

D

Photosynthetic bacteria

[< Previous Question](#)[Next Question >](#)

Q23

What was the unit membrane model?

A

Plasma membrane has lipid bilayer.

B

Proteins are embedded in the lipid bilayer.

C

Plasma membrane has charged pores for transport of materials which cannot penetrate through the lipid bilayer.

D

All of the above.

[< Previous Question](#)[Next Question >](#)

Q24

Which of the following organelles are found in both plant and animal cells?

A

central vacuole

B

tonoplast

C

cell wall

D

peroxisomes

[< Previous Question](#)[Next Question >](#)

Q25

Feedback inhibition in most metabolic pathways involves which type of enzymes?

A

Holoenzymes

B

Coenzymes

C

Apoenzymes

D

Allosteric enzymes

[< Previous Question](#)[Next Question >](#)

Q26

Maximum capacity of hemoglobin to absorb oxygen is:

A

19.6ml/100 ml blood

B

20 ml/100 ml blood

C

25 ml/100 ml blood

D

30 ml/100 ml blood

[< Previous Question](#)[Next Question >](#)

Q27

A group of interbreeding individuals belonging to a particular species and sharing a common geographic area is called?

A

community

B

family

C

race

D

population

[< Previous Question](#)[Next Question >](#)

Q28

Hemophilia is a sex-linked recessive disease. A mother that is a carrier for the disease mates with a healthy male. Which of the following statements is true?

A

The daughters are just as likely to be hemophilic as the sons

B

50% of the daughters will have hemophilia

C

None of the children will have hemophilia, because the mother is only a carrier

D

50% of the sons will have hemophilia

[< Previous Question](#)[Next Question >](#)

Q29

Which type of cartilage is the most abundant in human body?

A

Hyaline cartilage

B

elastic cartilage

C

fibrocartilage

D

None of these

[< Previous Question](#)[Next Question >](#)

Q30

Protein constitutes of what percentage of the total dry weight found in cells?

A

50

B

55

C

40

D

65

[< Previous Question](#)[Next Question >](#)

Q31

The difference in photosynthesis spectrum and actin spectrum occurs due to?

A

Carbon dioxide

B

oxygen

C

carotenoids

D

wavelength

[< Previous Question](#)[Next Question >](#)

Q32

The binding sites for the cross bridges are found on:

A

actin

B

myosin

C

troponin

D

sarcomere

[< Previous Question](#)[Next Question >](#)

Q33

Inhibitors which block the enzyme by forming weak bond are called?

A

Competitive inhibitors

B

Non-competitive inhibitors

C

Irreversible inhibitors

D

both a and b

[< Previous Question](#)[Next Question >](#)

Q34

The larvae of which of these animals resemble those of chordates?

A

Starfish

B

Cuttlefish

C

Catfish

D

Butterfly

[< Previous Question](#)[Next Question >](#)

Q35

A monohybrid cross yielded 3:1 in F₂. What could be mode of inheritance?

A

segregation

B

independent assortment

C

both a and b

D

none of these

[< Previous Question](#)[Next Question >](#)

Q36

Which of the following is involved in sleeping and waking?

A

thalamus

B

brain stem

C

hypothalamus

D

cerebellum

[< Previous Question](#)[Next Question >](#)

Q37

Out of 31 pairs of spinal nerves, how many pairs of coccygeal nerves are there?

A

1

B

5

C

10

D

12

[< Previous Question](#)[Next Question >](#)

Q38

Which disease is represented by excess MSH secretion?

A

addison's

B

alzheimer's

C

Parkinson's

D

Crohn's

[< Previous Question](#)[Next Question >](#)

Q39

Enzyme that are integral part of ribosomes are involved in the synthesis of which of the following molecules?

A

lipids

B

proteins

C

carbohydrates

D

all of these

[◀ Previous Question](#)[Next Question ▶](#)

Q40

Which one of these occur in dark reactions of photosynthesis

A

formation of ATP

B

release of oxygen

C

release of hydrogen

D

synthesis of PGAL

[< Previous Question](#)[Next Question >](#)

Q41

Movement of the material across the cell membrane which does not requiring expenditure of metabolic energy is called?

A

active transport

B

passive transport

C

diffusion

D

both b and c

[< Previous Question](#)[Next Question >](#)

Q42

What type of virus is the herpes simplex virus?

A

DNA enveloped virus

B

RNA enveloped virus

C

dna virus

D

rna naked virus

[< Previous Question](#)[Next Question >](#)

Q43

The amount of oxygen in exhaled air is:

A

21%

B

16%

C

79%

D

4%

[< Previous Question](#)[Next Question >](#)

Q44

Where does the molecular mechanism of oxidative phosphorylation take place?

A

cytosol

B

mitochondria

C

nucleus

D

all of these

[< Previous Question](#)[Next Question >](#)

Q45

Circulatory system is open type in all of the following except?

A

Arthropoda

B

Gastropoda

C

Pelecypoda

D

Cephalopoda

[< Previous Question](#)[Next Question >](#)

Q46

In a certain species of feline, all males are much larger than females. Members of either sex that are of intermediate size struggle to find mates. What principle best describes this phenomenon?

A

Bottleneck affect

B

Directional selection

C

Genetic drift

D

Disruptive selection

< Previous Question

Next Question >

Q47

Assume that blood type is not a sex-linked trait. A mother with genotype "A/O" and a father with genotype "A/B" could NOT have a child with which blood type?

A A

B B

C AB

D O

[< Previous Question](#)[Next Question >](#)

Q48

Where does germ cells are produced?

A

uterus

B

ovaries

C

eggs

D

fallopian tube

[< Previous Question](#)[Next Question >](#)

Q49

Cytoplasmic streaming movement causes flow of all of the following except?

A

Glucose and salts

B

mitochondria

C

Golgi

D

RER

[< Previous Question](#)[Next Question >](#)

Q50

Knee , elbow , ankle and interphalangeal joints are examples of:

A

Saddle joint

B

Condylloid joint

C

Ball and socket joint

D

Hinge joint

[< Previous Question](#)[Next Question >](#)

Q51

Example of a homologous organ is represented best by which of the following?

A

Wing of an insect, wing of a bird

B

Leg of a dog, leg of a spider

C

The arm of a human, wing of a bird

D

all of these

[< Previous Question](#)[Next Question >](#)

Q52

Phosphofructokinases enzyme converts fructose-6-phosphate into ____

A

fructose-1,4-phosphate

B

fructose-1,6-bisphosphate

C

bisphosphate

D

fructose

[< Previous Question](#)[Next Question >](#)

Q53

Which of the following is not an example of positive feedback?

- A A forest fire slowly expands outward, which provides it with even more fuel to burn.
- B During childbirth, oxytocin creates a stimulus which causes the hypothalamus to release more oxytocin
- C As more buffalo begin to run in a herd, the overall level of panic increases. This results in even more buffalo running.
- D As blood calcium levels increase, parathyroid hormone (PTH) is reduced.

[< Previous Question](#)[Next Question >](#)

Q54

Methanopyrus kandleri is an organism which lives in a hydrogen-carbon dioxide environment, and was first discovered in a hydrothermal vent where temperatures reached 230°F. What sort of organism is this?

A

protist

B

Cyanobacteria

C

archaea

D

bacteria

[< Previous Question](#)[Next Question >](#)

Q55

Chlorosis, which is represented by yellowish hue on the leaves results from which of the following?

A

Accumulation of toxic waste products in leaves.

B

Deficiency of chlorophyll.

C

Short supplies of mineral nutrients in the soil.

D

all of these

[< Previous Question](#)[Next Question >](#)

Q56

Carbonic anhydrase is found in:

A

RBC

B

Parabronchi

C

Pleura

D

none of these

< Previous Question

Next Question >

Q57

A key property of a living being is that it contains _____ for making its protein

A

amino acids

B

mitochondria

C

mRNA

D

ribosomes

[< Previous Question](#)[Next Question >](#)

Q58

Which of the following elements are not found in carbohydrates?

A

C

B

H

C

N

D

O

[◀ Previous Question](#)[Next Question ▶](#)

Q59

The composition of the white matter of spinal cord is:

A

myelinated dendrite

B

non-myelinated dendrite

C

non-myelinated axon

D

myelinated axon

[< Previous Question](#)[Next Question >](#)

Q60

Which of the following statement about the head of a chlorophyll molecule is incorrect?

A

It is a porphyrin ring or tetrapyrrole ring structure

B

It is flat, square and light absorbing

C

Composed of carbon and nitrogen atoms with Magnesium as central metal ion, which is coordinated with nitrogen.

D

It is hydrophobic

[< Previous Question](#)[Next Question >](#)

Q61

The efficiency of the heat engine can be defined as:...

A

 $\frac{Q_2}{Q_1} - 1$

B

 $\frac{Q_2}{Q_1} + 1$

C

 $\frac{Q_1}{Q_2} - 1$

D

 $\frac{Q_1}{Q_2} + 1$ [< Previous Question](#)[Next Question >](#)

Q62

Rate of change of displacement with respect to time is

A

acceleration

B

velocity

C

speed

D

power

[< Previous Question](#)[Next Question >](#)

Q63

Full wave rectifier uses

A

one diode

B

two diode

C

three diodes

D

Four diodes

[< Previous Question](#)[Next Question >](#)

Q64

For ideal step up transformer P_s ___ P_p .

A

equal to

B

greater than

C

less than

D

none of these

[< Previous Question](#)[Next Question >](#)

Q65

Oscillatory or vibratory motion can be defined as:

A

upward motion from mean position

B

right hand motion of the pendulum

C

to and fro motion about the mean position

D

random movement of gas particles

[< Previous Question](#)[Next Question >](#)

Q66

Which is not radioactive?

A

ozone

B

hydrogen

C

sodium

D

all of these

[< Previous Question](#)[Next Question >](#)

Q67

The capacitance of a capacitor is a measure of its ability to:...

A

store charge

B

store electric field

C

gain potential difference

D

store magnetic field

[< Previous Question](#)[Next Question >](#)

Q68

A man pushes a wall and failed to displace it ,he does

A

Negative work

B

positive work but not maximum

C

No work at all

D

maximum work

[< Previous Question](#)[Next Question >](#)

Q69

During the circular path in magnetic field, what is the magnetic force

A

$$F = qB$$

B

$$F = qB^2$$

C

$$F = qB/v$$

D

$$F = qvB$$

[< Previous Question](#)[Next Question >](#)

Q70

Radioactive radiations are used to destroy

A

healthy cells

B

cancerous cells

C

bacteria

D

damaged organs

[< Previous Question](#)[Next Question >](#)

Q71

The angular velocity at a particular instant is called:

A

instantaneous angular speed

B

instantaneous angular velocity

C

angular speed

D

none of these

[< Previous Question](#)[Next Question >](#)

Q72

In stretched string the frequency of vibration is given by $f = \frac{1}{2L} \sqrt{F/m}$. In this equation m has dimension

A

ML⁻²

B

ML⁻¹

C

M

D

ML

[◀ Previous Question](#)[Next Question ▶](#)

Q73

20 waves pass through a point in a medium, in 5 seconds. What is the time required to pass one wave?

A

$\frac{1}{4}$ sec

B

4 sec

C

$\frac{1}{2}$ sec

D

2 sec

[◀ Previous Question](#)[Next Question ▶](#)

Q74

International ohm is defined in terms of the resistance of

A

A column of mercury

B

A cube of carbon

C

A cube of copper

D

The unit length of wire

[< Previous Question](#)[Next Question >](#)

Q75

What is the acceleration of an object having charge $2\mu\text{C}$ and mass 2 g moving through electric field strength 20 N/C ?

A

 4 cm/s^2

B

 2 cm/s^2

C

 40 cm/s^2

D

 20 cm/s^2 [< Previous Question](#)[Next Question >](#)

Q76

A set of Atoms in an excited state decays

A

in any general state with lower energy

B

In any state when excited by electric field

C

In any state when excited by magnetic field

D

None of these

< Previous Question

Next Question >

Q77

Energy of photon is directly proportional to its :

A

Temperature

B

Frequency

C

Wave length

D

None of the above

[< Previous Question](#)[Next Question >](#)

Q78

Which of the following rectifier uses wheatstone bridge to rectify signal

A

half wave

B

full wave

C

bridge

D

All of the above

[< Previous Question](#)[Next Question >](#)

Q79

What is the de Broglie wavelength of a ball of mass 150g moving at a speed of 50 m/s?

A

 $8.8 \times 10^{-34} \text{m}$

B

 $8.8 \times 10^{-35} \text{m}$

C

 $8.8 \times 10^{-20} \text{m}$

D

 $8.8 \times 10^{-25} \text{m}$ [< Previous Question](#)[Next Question >](#)

Q80

Angle between radius vector and centripetal acceleration is

A

 0°

B

 π

C

 2π

D

none of these

[< Previous Question](#)[Next Question >](#)

Q81

A constant force of $F = (i - 2j - 3k)$ causes a displacement $d = (2i - 5j + k)$, what will be the net work done if F is in N and displacement is in meter

A 15 J

B 9 J

C 8 J

D 18 J

[◀ Previous Question](#)[Next Question ▶](#)

Q82

In an A.C. coordinate potentiometer, the currents in the phase and quadrature potentiometer are adjusted to be

A

Out of phase by 90°

B

Out of phase by 60°

C

Out of phase by 30°

D

Out of phase by 0°

[< Previous Question](#)[Next Question >](#)

Q83

Angular displacement is zero when

A

 $\text{angle} = 0$

B

 $v = 0$

C

 $r = 0$

D

both b and c

[< Previous Question](#)[Next Question >](#)

Q84

If a proton, alpha particle and photon moving with same velocity enter in uniform magnetic field then which particle will deflect more

A

proton

B

alpha particle

C

photon

D

all of these

[< Previous Question](#)[Next Question >](#)

Q85

If two photons interact in same direction what will change

A

mass

B

energy

C

intensity

D

none of these

[< Previous Question](#)[Next Question >](#)

Q86

Electric intensity at the centre of uniformly distributed charge is

A

Zero

B

Kq/r^2

C

q/r^2

D

q/ϵ_0

[< Previous Question](#)[Next Question >](#)

Q87

Crop mutation is performed by

A

high intense radiation

B

low intense radiation

C

mutation is done without radiation

D

none of these

[◀ Previous Question](#)[Next Question ▶](#)

Q88

Coulomb per volt is called:....

A

Ampere

B

electron volt

C

Joule

D

Farad

[◀ Previous Question](#)[Next Question ▶](#)

Q89

All electrical appliances are connected in parallel to each other between the main line and neutral wire to get

A

Same current

B

Same current and a potential difference

C

Different current but the same potential difference

D

Different current and potential differences

[< Previous Question](#)[Next Question >](#)

Q90 A straight moving bus takes a sharp right turn. What will happen to the passengers sitting inside the bus?

A They will tilt rightwards

B They will tilt leftwards

C They will stay the way they were

D They will start jumping

< Previous Question

Next Question >

Q91

1 Curie is equal to

A

1 MBq

B

37 MBq

C

37 GBq

D

3.7 GBq

[< Previous Question](#)[Next Question >](#)

Q92

Ripple factor of half wave rectifier is

A

1.21

B

0.8

C

0.6

D

0.4

[< Previous Question](#)[Next Question >](#)

Q93

Work done by the magnetic force on charged particle in presence of perpendicular magnetic field is

A

positive

B

zero

C

negative

D

none of these

[< Previous Question](#)[Next Question >](#)

Q94

According to Faraday's Law, emf induced in circuit depends on

A

max. magnetic flux

B

rate of change of magnetic flux

C

change in magnetic flux

D

initial flux

[< Previous Question](#)[Next Question >](#)

Q95

The core of transformer is made up of

A

hard iron

B

Soft iron

C

Aluminium

D

Copper

< Previous Question

Next Question >

Q96

A block of mass 60 kg just slides over a horizontal distance of 0.9 m. if the coefficient of friction between their surfaces is 0.15 then work done against friction will be:

A 79.4J

B 97.54J

C 105.25J

D 81J

[< Previous Question](#)[Next Question >](#)

Q97

Magnetic force between two wires is proportional to

A

distance

B

current on them

C

Charge on them

D

none of these

[< Previous Question](#)[Next Question >](#)

Q98

A full wave rectifier passes _____ into positive cycles

A

lower half cycle

B

upper half cycle

C

both cycles

D

none of them

[< Previous Question](#)[Next Question >](#)

Q99

What is true about acceleration of an object undergoing simple harmonic motion?

A

acceleration is minimum when velocity is maximum

B

acceleration is proportional to the frequency of oscillation

C

acceleration is in opposite direction to its velocity

D

acceleration is minimum when potential energy is maximum

[< Previous Question](#)[Next Question >](#)

Q100

Step down transformer has _____ turns in secondary coil

A

more

B

less

C

equal

D

zero

< Previous Question

Next Question >

Q101

The x-ray photon is uncertain when it is

A

emitted

B

absorbed

C

traveling

D

all of these

< Previous Question

Next Question >

Q102

The unstable atom means

A

electrons are increasing

B

protons are increasing

C

neutrons are increasing

D

any of these

< Previous Question

Next Question >

Q103

An object is displaced from point A (2,3,4) m to point B (1,2,3) m under a constant force $F = (2i + 3j + 4k)$. find the work done by this force in this process

A 9 J

B 0

C -9 J

D 20 J

< Previous Question

Next Question >

Q104

100 W heater is used for 5 minutes to heat 500 g of water. What is the change in temperature of water? Specific heat capacity of water is 4.2 J/gC .

A 140C

B 40C

C 0.2 C

D 14C

< Previous Question

Next Question >

Q105

A half wave rectifier is operating from 50 Hz mains. Fundamental frequency of ripple will be

A

100 Hz

B

25 Hz

C

200Hz

D

50Hz

[< Previous Question](#)[Next Question >](#)

Q106

If magnetic field is given by $B = (2\mathbf{i} + 3\mathbf{j} - 8\mathbf{k})$ and a loop of area 10 sq.m is placed in field in y-z plane, max flux will be

A

-20 wb

B

30 wb

C

20 wb

D

80 wb

< Previous Question

Next Question >

Q107

Power transfer from primary to secondary is through flux linkage, so the primary and secondary coils should be wound in such a way that flux coupling between them is

A

min

B

constant

C

zero

D

max

[< Previous Question](#)[Next Question >](#)

Q108

Internal energy remains same throughout the process in

A

adiabatic process

B

isothermal process

C

cyclic process

D

both (i) and (ii)

[< Previous Question](#)[Next Question >](#)

Q109

When white light is passed through cool gases the spectra we observed is called

A

Line spectra

B

continuous spectra

C

absorption line spectra

D

emission line spectra

[< Previous Question](#)[Next Question >](#)

Q110

What is the hybridization of carbon in -COOH group?

A

 sp^2

B

 Sp^s

C

 Sp

D

None of these

< Previous Question

Next Question >

Q111 In Haber's process the final product ammonia is converted into

A solid state

B Liquid state

C gaseous state

D None of these

< Previous Question

Next Question >

Q112

Joule is the unit of ?

A

Heat

B

Energy

C

Work

D

All of these

< Previous Question

Next Question >

Q113

The region where probability of finding the electron is maximum is called as

A

Nucleus

B

Atom

C

Orbital

D

Nodal plane

[< Previous Question](#)[Next Question >](#)

Q114

Molecules of ____ can collide among themselves and exchange energy

A

solids

B

liquids

C

gases

D

both B & C

[< Previous Question](#)[Next Question >](#)

Q115

During catalytic reduction of carbonyl compounds, hydrogen adds across?

A

 $C=C$

B

 $C-H$

C

 $C=O$

D

All of these

< Previous Question

Next Question >

Q116

Molten sodium burns with brilliant yellow flame in a chlorine atmosphere to form ____?

A

NaCl

B

NaOH

C

NaBr

D

ClO

[< Previous Question](#)[Next Question >](#)

Q117 The shielding effect _____ from left to right in a period

A decreases

B increases

C remains same

D no change

< Previous Question

Next Question >

Q118

The break down of molecular ions from natural products give important information about

A

size

B

position

C

shape

D

structure

[< Previous Question](#)[Next Question >](#)

Q119

Transition elements form complexes because_____?

A

They have empty d orbitals

B

They show variable oxidation states

C

Both a and b

D

They have strong bonding

< Previous Question

Next Question >

Q120

Crystallites are a part of

A

Ores

B

Crystalline Solids

C

Amorphous Solids

D

None of these.

< Previous Question

Next Question >

Q121

Strong acid can be involved in a spontaneous reaction which is termed as

A

Addition Reaction

B

Substitution Reaction

C

Neutralization Reaction

D

Reversible Reaction

[< Previous Question](#)[Next Question >](#)

Q122

Hydrolysis means reaction with

A

Oxygen

B

Hydrogen

C

Water

D

Air

< Previous Question

Next Question >

Q123

On which factor boiling point of a liquid does not depends?

A

External pressure

B

Vapour pressure

C

Amount of liquid

D

Intermolecular forces

[< Previous Question](#)[Next Question >](#)

Q124

Falling water of a waterfall is an example of

A

Reversible Reaction

B

Spontaneous Reactions

C

Endothermic Reactions

D

All of these

< Previous Question

Next Question >

Q125

Protein component of enzyme is called_____.

A

Coenzyme

B

Cofactor

C

Apo-enzyme

D

Prosthetic group

< Previous Question

Next Question >

Q126

Wholar prepare urea from_____?

A

Ammonium cyanate

B

Ammonium acetate

C

Ammonium urease

D

Ammonium Carbonate

< Previous Question

Next Question >

Q127

Which of the following alcohol is most reactive in the reaction where O-H bon breaks?

A

Primary alcohol

B

Tertiary alcohol

C

Methyl alcohol

D

Secondary alcohol

[< Previous Question](#)[Next Question >](#)

Q128

Water is considered as a Universal solvent because of which properties?

A

Polar nature of water

B

H-bonding

C

Electronegativity difference

D

All are correct

[< Previous Question](#)[Next Question >](#)

Q129

The half-life of Uranium is

A

700 Million years

B

706 Million years

C

89 days

D

710 million year

< Previous Question

Next Question >

Q130

In the addition of sodium bisulfite to carbonyl system, which of the following is nucleophile?

A

Sulphide ion

B

Sulfite ion

C

Hydride ion

D

Sodium ion

[< Previous Question](#)[Next Question >](#)

Q131 Ketones can be oxidized by _____?

A Dil.HNO₃

B Tollen's reagent

C Benedict reagent

D Fehling's reagent

< Previous Question

Next Question >

Q132

The shielding effect is also called

A

Zee effect

B

screening effect

C

negative effect

D

reducing effect

< Previous Question

Next Question >

Q133

Production of Ammonia by Haber process is a

A

Endothermic Reaction

B

Exothermic Reaction

C

Irreversible Reaction

D

Redox Reaction

< Previous Question

Next Question >

Q134

Reaction of Sodium with water is an example of

A

Reversible reaction

B

Endothermic

C

Irreversible

D

Slow

< Previous Question

Next Question >

Q135

In Electrochemical Cells Reduction takes place at

A

Anode

B

Cathode

C

At the surface of electrolyte

D

None of these

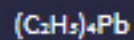
< Previous Question

Next Question >

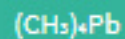
Q136

Alkyl halide react with Sodium lead alloy, which of the following is correct formula of tetramethyl lead?

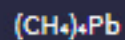
A



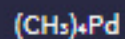
B



C



D



< Previous Question

Next Question >

Q137

On which factors the vapour pressure of a substance does not depend?

A

Physical state of matter

B

Intermolecular forces

C

Surface area

D

Temperature

[< Previous Question](#)[Next Question >](#)

Q138

1 Pascal is equal to

A

1 Nm⁻²

B

76 t rr

C

1 1325 pa

D

all of these

< Previous Question

Next Question >

Q139

Heavy water contain isotope of Hydrogen

A

protium

B

deuterium

C

tritium

D

both A & C

< Previous Question

Next Question >

Q140

Number of Valence Electrons in Cl^- Ion are

A

18

B

10

C

17

D

8

< Previous Question

Next Question >

Q141

Nitrates of which pair of elements gives different products on thermal decomposition?

A

Na, K

B

Mg, Ca

C

Li, Na

D

Li, Ca

[< Previous Question](#)[Next Question >](#)

Q142

Any process of chemical decay of metals due to the action of the surrounding medium is called

A

Activation

B

Enamelling

C

Corrosion

D

Coating

[< Previous Question](#)[Next Question >](#)

Q143

Which pair shows hydrogen bonding among them

A

ammonia & carbon

B

acetone and Ker

C

acetone and chloroform

D

water & Neon

< Previous Question

Next Question >

Q144 Fruity smell of organic compounds is because of _____?

A Alcohols

B Carboxylic acid

C Ester

D Acidhalids

< Previous Question

Next Question >

Q145

OH-is added when reaction is in

A

Acidic Medium

B

Basic Medium

C

Neutral solution

D

All of these

< Previous Question

Next Question >

Q146

If temperature of reaction medium increases above optimum temperature then_____?

A

It increases the enzyme activity

B

Stops the reaction

C

Decreases the enzyme activity

D

Both b and c

[< Previous Question](#)[Next Question >](#)

Q147

Which of the following is most reactive of all?

A

Alkanes

B

Alkenes

C

Alkynes

D

Benzene

< Previous Question

Next Question >

Q148

Coordination number of Na in NaCl is

A

4

B

6

C

8

D

3

< Previous Question

Next Question >

Q149

The branch of biology which deals with the study of chemical compounds and the chemical processes in the living organisms is called?

A

Chemistry

B

Biochemistry

C

Molecular Biology

D

Both a and b

< Previous Question

Next Question >

Q150

Proteins are the polymers of?

A

amino acids

B

fatty acids

C

nucleotides

D

none of these

< Previous Question

Next Question >

Q151

In which of the following component of the body, lactic acid fermentation takes place?

A

Heart

B

Muscles

C

Liver

D

Brain

[< Previous Question](#)[Next Question >](#)

Q152

A trait determined by a gene on the X chromosome is said to be:

A

Pseudoautosomal

B

Sex linked

C

Both a & b

D

None of the above

[< Previous Question](#)[Next Question >](#)

Q153

The total aggregate of genes in a population at any one time is called population's?

A

genome

B

gene pool

C

genetic group

D

genomic library

[< Previous Question](#)[Next Question >](#)

Q154

Rarely occurring monosaccharides observed in some bacteria is?

A

Tetroses

B

hexoses

C

pentoses

D

trioses

[< Previous Question](#)[Next Question >](#)

Q155

What types of viruses contain the enzyme lysozyme to aid in their infection?

A

bacteriophage

B

animal viruses

C

plant viruses

D

fungal viruses

[< Previous Question](#)[Next Question >](#)

Q156

The process that does not occur during expiration is:

A

intercostal muscles are relaxed

B

ribs are relaxed

C

muscles of diaphragm are relaxed

D

Lungs are relaxed

[< Previous Question](#)[Next Question >](#)

Q157

_____ relationship exists between current and voltage in terms of Ohm's law

A

Non linear

B

Varying

C

Linear

D

None of them

[< Previous Question](#)[Next Question >](#)

Q158

The value of Rydberg constant varies with atomic number as

A

Z^3

B

$1/Z^2$

C

Z^2

D

Z

< Previous Question

Next Question >

Q159

If anyone of the products concentration is plotted against time instead of reactants the curve obtained will be

A

Parabolic

B

Rising

C

Falling

D

Elliptical

< Previous Question

Next Question >

Q160

At which temperature water boils at Murree Hills?

A

50°C

B

100°C

C

98°C

D

67°C

< Previous Question

Next Question >

Q161

The total number of transition elements are?

A

48

B

32

C

58

D

28

< Previous Question

Next Question >

Q162

Electrolysis is a

A

Spontaneous Reactions

B

Oxidation-reduction reaction

C

Reduction Reaction

D

Oxidation Reaction

< Previous Question

Next Question >

Q163

Ammonia may be prepared by heating ammonium chloride with

A

Water

B

NaCl

C

Aqueous sodium hydroxide

D

H₂SO₄

[< Previous Question](#)[Next Question >](#)

Q164

Which of the following reactions have first step similar with each other?

A

 E_1, S_2

B

 E_2, S_1

C

 E_2, S_2

D

 E_1, S_1

< Previous Question

Next Question >

Q165

When are the prefixes ortho, para, and meta used?

A

In alkynes to identify the position of triple bond

B

In arenes to identify the position first substitution

C

In arenes to identify the position second substitution

D

In all hydrocarbons to identify the position functional group

[< Previous Question](#)[Next Question >](#)

Q166

The value of heat of neutralization of strong acid with a strong base is always _____?

A

Constant

B

Variable

C

Depends on the strength of acid

D

Depends on the strength of base

[< Previous Question](#)[Next Question >](#)

Q167

Different type of hybridization takes place depending upon _____ of orbital's participating in hybridization

A

number

B

nature

C

structure

D

both A & B

[< Previous Question](#)[Next Question >](#)

Q168

Decomposition of Ozone has a very low value of equilibrium constant because of its

A

stability

B

reactivity

C

compressibility

D

Instability

[< Previous Question](#)[Next Question >](#)

Q169

We all _____ (have) fun.

A

have

B

had

C

will have

D

have had

< Previous Question

Next Question >

Q170

Tweezers ____ always useful to handle small objects.

A

is

B

are

C

will

D

may

< Previous Question

Next Question >

Q170

Tweezers ____ always useful to handle small objects.

A

is

B

are

C

will

D

may

< Previous Question

Next Question >

Q172

Choose the correct spelling of the word

A

except

B

excapt

C

excipt

D

ecsept

< Previous Question

Next Question >

Q173

we had

A

wed

B

we'ded

C

we'd

D

wee'd

< Previous Question

Next Question >

Q174

We have (A) /been knowing (B)/ each other (C)/ since we were children. (D)

A

We have

B

been knowing

C

each other

D

since we were children

[< Previous Question](#)[Next Question >](#)

Q175

You must boil those vegetables before _____ in the stew.

A

using

B

use

C

their used

D

the use

[< Previous Question](#)[Next Question >](#)

Q176

A large number of soldiers _____ died for the country.

A

has

B

is

C

are

D

have

[< Previous Question](#)[Next Question >](#)

Q177

What is the tense of this question? Will Tom be able to mend that broken window?

A

Present

B

past

C

future

D

none of these

[< Previous Question](#)[Next Question >](#)

Q178

Karim is _____ best student in the class.

A

a

B

an

C

the

D

no article

< Previous Question

Next Question >

Q179

hunch

A

hump

B

stretch

C

straighten

D

curiosity

< Previous Question

Next Question >

Q180

Choose the correct sentence.

A

I did not accompanied them.

B

I do not accompanied them.

C

I do not accompany them

D

I does not accompany them.

< Previous Question

Next Question >

Q181

The mechanic is working hard to _____ our car by this evening.

A

make

B

repair

C

renew

D

wander

[< Previous Question](#)[Next Question >](#)

Q182

Find the error?

A

The staff at the university

B

library deserve recognition

C

for helping to locate

D

the many sources needed for the successful completion of my doctoral dissertation.

< Previous Question

Next Question >

Q183

I _____ a letter now.

A

write

B

writing

C

am writing

D

am writting

< Previous Question

Next Question >

Q184

Choose the correct spelling of the word

A

comitte

B

commite

C

committee

D

comittee

< Previous Question

Next Question >

Q185

luminary

A

bright

B

lightening

C

famous

D

dashing

< Previous Question

Next Question >

Q186

Statement. All clocks are watches. Some clocks are alarms. Conclusion I Some alarm watches. II All watches are alarm.

A

Only conclusion (I) follows

B

Only conclusion (II) follows

C

Both conclusions follow

D

Both of them do not follow

[< Previous Question](#)[Next Question >](#)

Q187

Statement A smoker has left smoking suddenly a. He will feel restlessness and anxiety. b. He will start gaining weight

A

Both of them follows

B

None of them follows

C

Only b follows

D

Only a follows

[< Previous Question](#)[Next Question >](#)

Q188

Which letter lies in the middle of word Quality?

A

L

B

A

C

U

D

Y

< Previous Question

Next Question >

Q189

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A both of them follows

B None of them follows

C Only I follows

D Only II follows

[< Previous Question](#)[Next Question >](#)

Q190

Statement Should admission to the professional degrees in Pakistan be given only on merit without any concession to any particular group of students? Arguments (I) Yes. This will improve the quality of the professional institutes and degrees as they will be able to complete the degree successfully. (II) No. This will keep a large number of socially and economically backward students out of the reach of professional institutes and degrees.

- A If argument I is strong
- B If only argument II is strong
- C If both I and II are strong.
- D If neither I nor II is strong

Q191

Who is the father of Computer?

A

Alan Turing

B

Charles Babbage

C

Simur Cray

D

Both A and B

< Previous Question

Next Question >

Q192

Children are in pursuit of a dog whose leash has broken. James is directly behind the dog. Ruby is behind James. Rachel is behind Ruby. Max is ahead of the dog walking down the street in the opposite direction. As the children and dog pass, Max turns around and joins the pursuit. He runs in behind Ruby. James runs faster and is alongside the dog on the left. Ruby runs faster and is alongside the dog on the right. Which child is directly behind the dog?

A James

B Ruby

C Rachel

D Max

< Previous Question

Next Question >

Q193

Statement: Rural and semi urban areas in the country have been suffering due to load shedding for quite some time. If the government is not able to overcome the power crisis, load shedding will be extended even to the urban areas.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect

C

Both the statements I and II are independent causes

D

Both the statements I and II are effects of some common cause

[< Previous Question](#)[Next Question >](#)

Q195

Cyclic path is one in which initial state is equal to

A

2 (final state)

B

final state

C

3 (final state)

D

Not enough information

[< Previous Question](#)[Next Question >](#)

Q196

1 amu is equal to

A

 $1.666 \times 10^{-27} \text{ kg}$

B

 $1.661 \times 10^{-28} \text{ kg}$

C

 $1.661 \times 10^{-27} \text{ kg}$

D

 $1.661 \times 10^{-27} \text{ kg}$

< Previous Question

Next Question >

Q197

Internal resistance is the resistance offered by

A

Source of emf

B

Conductor

C

Resistor

D

Capacitor

< Previous Question

Next Question >

Q198

Which gases are used as mixture for breathing in sea?

A

Oxygen and nitrogen

B

Carbon dioxide and oxygen

C

Helium and oxygen

D

Helium and hydrogen

[< Previous Question](#)[Next Question >](#)

Q199

Directions : In each of the following questions a statement is given, followed by two conclusions. Give answer : Statement : "Please do not wait for me, I may be late, start taking lunch as soon as the guests arrive." - A message from a Director of a Company to his office managers. Assumptions : I. Keeping guests waiting is not desirable. II. Lunch may not be ready in time.

A

Only assumption I is implicit

B

Only assumption II is implicit

C

Either I or II is implicit

D

Both A and B

< Previous Question

Next Question >

Q200

What tense is the verb in this sentence? 'I'll take you in my car.'

A

Present

B

past

C

future

D

none of these

[< Previous Question](#)[Next Question >](#)

Q201

If the velocity of an object is increasing with time then acceleration is

A

negative

B

positive

C

zero

D

none of the above

[< Previous Question](#)[Next Question >](#)

Q202

A nucleus with $A=235$ splits into two nuclei of mass numbers in the ratio 1:2. The ratio of the radii of the new nuclei are :

A

1:02

B

01:01.3

C

8:01

D

none of these

< Previous Question

Next Question >

Q203

Geometrical isomerism arises due to ____?

A

Rotation around a double bond

B

Restriction of rotation around a single bond

C

Restriction of rotation around a double bond

D

Due to double bond

< Previous Question

Next Question >

Q204

Ethene react with Oxygen in the presence of Silver oxide to produce_____?

A

Ethylene oxide

B

Ethylene epoxide

C

Methylene oxide

D

Both a and b

[< Previous Question](#)[Next Question >](#)

Q205

In which situation, distance is three times than its displacement?

A

object moves and come back to its initial position

B

object moves 20 m towards east and 10 m towards west

C

object moves 20 m towards east and 10 m towards south

D

object moves 20 m towards north and 10 m towards west

[< Previous Question](#)[Next Question >](#)

Q206

Choose the correct sentence.

A

I don't like this one bit said Jamil.

B

"I don't like this one bit," said Jamil.

C

"I don't like this one bit?" said jamil.

D

I don't like this one bit ,said Jamil.

< Previous Question

Next Question >

Q207

Acetaldehyde in the presence of $\text{Con.H}_2\text{SO}_4$ undergoes _____?

A

Dehydration

B

Polymerization

C

Condensation

D

Oxidation reaction

< Previous Question

Next Question >

Q207

Acetaldehyde in the presence of $\text{Con.H}_2\text{SO}_4$ undergoes _____?

A

Dehydration

B

Polymerization

C

Condensation

D

Oxidation reaction

< Previous Question

Next Question >

Q209

I found this bangle (A) while digging (B) in the backyard.(C) I don't know who it belonged to. (D)

A

I found this bangle

B

while digging

C

in the back yard.

D

I don't know who it belonged to.

[< Previous Question](#)[Next Question >](#)